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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/069,926	07/23/2002	Josef Pickel	R.38168 9744 EXAMINER	
2119	7590 12/23/2003			
RONALD E	. GREIGG	EVANS, GEOFFREY S		
GREIGG & GREIGG P.L.L.C. 1423 POWHATAN STREET, UNIT ONE			ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22314			1725	

DATE MAILED: 12/23/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.		Applicant(s)				
· 2 •	10/069,926		PICKEL ET AL.				
Office Action Summary	Examiner		Art Unit	- () }-			
<i></i>	Geoffrey S Evan	ıs	1725	\bigcup '			
The MAILING DATE of this communication ap				ldress			
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, how ply within the statutory mi I will apply and will expire the cause the application	rever, may a reply be tim nimum of thirty (30) days SIX (6) MONTHS from to become ABANDONEI	ely filed will be considered time he mailing date of this o	ly. ommunication.			
1) Responsive to communication(s) filed on 28 (October 2003.						
,	s action is non-fin	al.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) <u>13-16,19,22,25 and 28</u> is/are pendir	ng in the application	on.					
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>13,14,16,19,25 and 28</u> is/are rejected.							
7)⊠ Claim(s) <u>15 and 22</u> is/are objected to.	7)⊠ Claim(s) <u>15 and 22</u> is/are objected to.						
8) Claim(s) are subject to restriction and	or election requir	ement.					
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
Replacement drawing sheet(s) including the corre	ection is required ii t Examiner Note th	ne drawing(s) is ob	Action or form P	TO-152.			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120	·	DE U.C.O. \$ 110/	a) (d) or (f)				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 							
Attachment(s)	-	7	. /DTO 442\ D\	0(5)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5)	Interview Summar Notice of Informal Other:	7 (PTO-413) Paper N Patent Application (P	υ(ə). <u> </u>			

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DETAILED ACTION

1. The indicated allowability of the subject matter of various claims is withdrawn in view of the newly discovered reference, U.S. Patent No. 5,539,648. The delay in citation of this reference is regretted.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 13,14,16,19,25 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Baker in U.S. Patent No. 5,539,648. Baker discloses using a pair of piezoelectric transducers (see column 5,lines 5-10) that vibrate the electrode along two orthogonal axes at an amplitude set by a gain control (see column 5,lines 48-50). Signals with a phase shift of 90 degrees are sent to the transducers to make a circular hole. Regarding claim 25, Baker discloses in column 5,lines 60-62 that servo-motors could be used instead of piezoelectric transducers. Piezoelectric transducers transmit ultrasonic vibrations.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 15 and 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Applicant's arguments with respect to claims of record have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey S Evans whose telephone number is (571)-272-1174. The examiner can normally be reached on Mon-Fri 6:30AM to 4:00 PM, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (703)-308-3318. The fax phone number for the organization where this application or proceeding is assigned is (703)-305-7718.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-308-0661.

Geoffrey S Evans Primary Examiner Art Unit 1725

GSE